From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER 1 OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rule 72.2)

To

ONDA, Hironori 12-1, Ohmiya-cho 2-chome Gifu-shi, Gifu 500-8731 JAPON



Date of mailing (day/month/year)
21 July 2005 (21.07.2005)

Applicant's or agent's file reference P3S2003264

International application No. PCT/JP2003/013461

IMPORTANT NOTIFICATION

International filing date (day/month/year) 22 October 2003 (22.10.2003)

Applicant

HOYA CORPORATION et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

AZ, CA, CH, CN, EP, GH, KG, KP, KR, MK, MZ, RO, RU, TM

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, BA, BB, BG, BR, BY, BZ, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda ---

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 10

Form PCT/IB/338 (July 1996)

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

anslation internati	PATENT COOPI	ERATION TRE	АТУ РСТ/ЈР2003
INTERNATI	IONAL PRELIMINA (Chapter II of the Pa	RY REPORT ON	
	(PCT Article	e 36 and Rule 70)	
Applicant's or agent's file reference P3S2003264	FOR FURTHER A	CTION	See Form PCT/IPEA/416
International application No. PCT/JP2003/013461	International filing da 22 October 200	nte (day/month/year) 03 (22.10.2003)	Priority date (day/month/year) 23 October 2002 (23.10.200
International Patent Classification (IPC) or G11B 5/73, 5/84, C03C 15/00,	national classification and 19/00, 23/00	nd IPC	
Applicant	HOYA COR	PORATION	
This report is the international pre Authority under Article 35 and tra	liminary examination rep	ort, established by this according to Article 36	s International Preliminary Examining 6.
and/or sheets or Administrative sheets which su beyond the disc Supplemental B	Instructions). Instructions). Instructions). Instructions). Instructions Instruct	orthorized by this Authority al application as filed, total of (indicate ty ining a sequence listin	een amended and are the basis of this reprity (see Rule 70.16 and Section 607 of the considers contain an amendment that as indicated in item 4 of Box No. I and the pe and number of electronic carriers and/or tables related thereto, in compose Sequence Listing (see Section 802 of the content of the conten
Box No. IV Lack of unit Box No. V Reasoned st citations and Box No. VI Certain doct Box No. VII Certain defe	report shment of opinion with re ty of invention tatement under Article 350 d explanations supporting	egard to novelty, invent (2) with regard to nove such statement	tive step and industrial applicability elty, inventive step or industrial applicab
Date of submission of the demand		Date of completion of	of this report
28 April 2004 (28.04	1.2004)	_	anuary 2005 (20.01.2005)
Name and mailing address of the IPEA/JP)	Authorized officer	
Facsimile No.		Telephone No.	

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/013461

Box No.	I Basis of the report							
1. With other	regard to the language, this report is based on the international application in the language in which it was filed, unless wise indicated under this item.							
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:							
	international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4)							
1	international preliminary examination (under Rules 55.2 and/or 55.3)							
	(
and a	regard to the elements of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" The international applications is the transfer of the property of the pro							
1 1 "1	The international application as originally filed/furnished							
	the description:							
1	pages, as originally filed/furnished							
	received by this Admortty on							
l	received by this Authority on							
L	the claims:							
	pages, as originally filed/furnished:							
	pages*, as amended (together with any statement) under Article 19							
	pages* received by this Authority on							
,—,	received by this Authority on							
	the drawings:							
-	pages, as originally filed/furnished							
	received by this Authority on							
1	pages* received by this Authority on							
;	a sequence listing and/or any related table(s) see Supplemental Box Relating to Sequence Listing.							
3	The amendments have resulted in the cancellation of:							
	the description, pages							
	the claims No.							
	the drawings, sheets/figs							
i I	the sequence listing (specify):							
· ·	any table(s) related to sequence listing (specify):							
	This report has been established as if (some of) the amendments annexed to this report and listed below had not been nade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):							
	applies, some or all of those sheets may be marked "superseded."							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/013461

Box No. IV	y or mention	
1 I	n response to the invitation to restrict or pay additional fees the applicant has:	
	restricted the claims.	
	paid additional fees.	
	paid additional fees under protest.	
\boxtimes	neither restricted nor paid additional fees.	
2. Thi not	s Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1 to invite the applicant to restrict or pay additional fees.	l,
. This Auth	ority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is	
com	plied with.	
not o	complied with for the following reasons:	
	supplemental sheet	
		•
Consequently	y, this report has been established in respect of the following parts of the international application:	
	Il parts.	
☐ th	ne parts relating to claims Nos.	
,, ·	te parts relating to claims Nos.	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/13461

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3.

The feature of claims 1-12 relates to methods for manufacturing glass substrates for information recording media, and more particularly it relates to regulating the composition of the surface layer of the glass substrates such that the percentage content of silicon oxide in the surface layer is higher than in the other parts other than the surface layer.

The feature of claims 13-17 relates to glass substrates for information recording media, and more particularly it relates to the calculated average roughness and peak height of the glass substrate surface.

Therefore, these two groups of inventions do not constitute a group of inventions so linked as to form a single general inventive concept.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/13461

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-17	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-17	NO
-	Industrial applicability (IA)	Claims	1-17	YES
		Claims		NO

2. Citations and explanations

Document 1: JP 2002-133649 A (Nippon Sheet Glass Co.,

Ltd.), 10 May 2002

Document 2: JP 2002-251716 A (Nippon Sheet Glass Co.,

Ltd.), 6 September 2002

Document 3: JP 2001-294447 A (Nippon Electric Glass Co.,

Ltd.), 23 October 2001

Claims 1-12: Documents 1-3

Document 1 (paragraphs [0035]-[0085] and fig. 1) and document 2 (paragraphs [0032]-[0046] and fig. 1 to fig. 3) disclose substrates for information recording media and methods for manufacturing the same such that an etching treatment is carried out after texture processing of the glass substrates.

Document 3 (paragraphs [0018]-[0019]) discloses a technique whereby the surface of glass is rinsed using an acidic rinsing solution in order to give a high silicon oxide content in the surface layer.

A person skilled in the art could easily apply the technique disclosed in document 3 for giving a high silicon oxide content in the surface layer in a substrate

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/13461

for information recording media and method for manufacturing the same disclosed in documents 1 and 2.

Claims 13-17

Document 1 discloses a technique wherein Rp is made 10 nm or less, and document 2 discloses a technique wherein Ra is made 1.5 nm or less; and a person skilled in the art could easily made Ra 1.5 nm or less as disclosed in document 2, in the substrates for information recording media and the method for manufacturing the same disclosed in document 1.